

**DialogWeb**

Guided Search | new search | favorites | settings | order | cost | logoff | help

Dynamic Search: INPADOC/Family and Legal Status, JAPIO -Patent Abstracts of Japan, Derwent World Patents Index

Records for: PN=JP 62234550

save as alert... | save strategy only...

Output: Format: Long | Output as: Browser | display/send

Modify | refine search | back to picklist

select all none | Records 1-3 of 3 In long Format

1. 2/34/1 (Item 1 from file: 351)

007333285  
 WPI Acc No: 1987-330292/ 198747  
 Catalyst for epoxidation of olefin(s) - comprises quat. ammonium salt or peroxide  
 Patent Assignee: SAN PETROCHEMICAL K (SANP-N)  
 Number of Countries: 001 Number of Patents: 001  
 Patent Family:  
 Patent No Kind Date Applcat No Kind Date Week  
 JP 62234550 A 19871014 JP 86228768 A 19860927 198747 B  
 Priority Applications (No Type Date): JP 85296226 A 19851224; JP 86228768 A 19860927  
 Patent Details:  
 Patent No Kind Lan Pg Main IPC Filing Notes  
 JP 62234550 A 8  
 Abstract (Basic): JP 62234550 A  
 Catalyst is salt or peroxide consisting of quat. ammonium ion derived from quat. ammonium cpd. or quat. ammonium cpd. with N-contg. ring and heteropolyacid ion of V gp. element of periodic table and W. Quat. cpd. has general formula of R<sub>4</sub>N(+)-X(-) (at least one R is alkyl gp. of 8-18C and other Rs are alkyl gps. or benzyl gps. of 1-18C. X = anionic counter ion).  
 Pref. N-contg. rings are pyridine ring, picoline ring, quinoline ring, imidazole ring and morpholine ring. Heteropolyacids are phosphonotungstic acid and arsenotungstic acid, etc. Solvents used are non-hydrophilic solvents, e.g. halogenated hydrocarbons.  
 USE - The catalyst obtd. is used to react olefin and H<sub>2</sub>O<sub>2</sub> in a solvent at 0-120 deg.C. Cpd. obtd. by epoxidation are used as raw materials of epoxy resins and as intermediate prods. of reagents, medicines and agricultural chemicals, etc.  
 0/0  
 Derwent Class: A41; B03; C02; E13  
 International Patent Class (Additional): B01J-031/02; C07D-301/12

Derwent WPI (Dialog® File 351): (c) 2003 Thomson Derwent. All rights reserved.

2.

2/34/2 (Item 2 from file: 347)

02317650 CATALYST AND ITS USAGE

Pub. No.: 62-234550 A ]

Published: October 14, 1987 (19871014)

Inventor: ISHII YASUTAKA

Applicant: SAN PETORO CHEM KK [000000] (A Japanese Company or Corporation), JP (Japan)

Application No.: 61-228768 [JP 86228768]

Filed: September 27, 1986 (19860927)

International Class: [ 4 ] B01J-031/02; C07D-301/12

JAPIO Class: 13.9 (INORGANIC CHEMISTRY -- Other); 14.1 (ORGANIC CHEMISTRY -- Organic Compounds)

Journal: Section: C, Section No. 485, Vol. 12, No. 103, Pg. 158, April 05, 1988 (19880405)

## ABSTRACT

PURPOSE: To obtain the title catalyst for producing epoxides from olefins and hydrogen peroxide with high conversion efficiency and selectivity by using a specified quaternary ammonium ion and the salts of group V elements of the periodic table and tungsten with heteropolyacid ions or their peroxides.

CONSTITUTION: A quaternary ammonium compound shown by the formula R<sub>4</sub>N<sup>+</sup>.X<sup>-</sup> (in the formula, at least one of the R<sub>s</sub> are a 8-18C alkyl group, other R<sub>s</sub> are a 1-18C alkyl or benzyl group, and X<sup>-</sup> is an anionic counter ion) or a nitrogen ring-containing quaternary ammonium and the heteropolyacids such as phosphonotungstic acid are respectively dissolved in a solvent such as water, both solutions are then mixed, and the deposited salt is isolated to obtain a catalyst. The catalyst is further treated with hydrogen peroxide before the catalyst is tested for the reaction, and the catalytic activity can be enhanced. High conversion efficiency of olefins and high selectivity can be obtained with use of the catalyst while using easy-to-handle comparatively low-concentration hydrogen peroxide.

JAPIO (Dialog® File 347): (c) 2003 JPO & JAPIO. All rights reserved.

---

3.

2/34/3 (Item 3 from file: 345)

6123054

Basic Patent (No,Kind,Date): JP 62234550 A2 871014

## PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 62234550 A2 871014  
CATALYST AND ITS USAGE (English)  
Patent Assignee: SAN PETORO CHEM KK  
Author (Inventor): ISHII YASUTAKA  
Priority (No,Kind,Date): JP 85296226 A1 851224  
Applc (No,Kind,Date): JP 86228768 A 860927  
IPC: \* B01J-031/02; C07D-301/12  
CA Abstract No: ; 109(10)075696J  
Derwent WPI Acc No: ; C 87-330292  
JAPIO Reference No: ; 120103C000158  
Language of Document: Japanese

Inpadoc/Fam.& Legal Stat (Dialog® File 345): (c) 2003 EPO. All rights reserved.

select  
all none

Records 1-3 of 3 In long Format

Output 

Format:   Output as:  

Modify 

©1997-2003 The Dialog Corporation – Version 2.3